

Appl. No. 10/580,232
Amendment dated: November 28, 2008
Reply to OA of: October 28, 2008

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(currently amended). Mixture of isolated or synthetic unlabelled affinity molecules in a liquid carrier comprising at least two different affinity molecules, each with affinity for a predetermined analyte, for use in a single or multi flow cell piezoelectric crystal micro balance apparatus.

2(original). Mixture according to claim 1, wherein each isolated or synthetic affinity molecule forms together with the predetermined analyte an interaction pair selected from the group consisting of anion-cation, antibody-antigen, receptor-ligand, enzyme-substrate, oligonucleotide-oligonucleotide with complementary sequence, oligonucleotide-protein, oligonucleotide-cell, and peptide nucleic acid (PNA) oligomer-polynucleotide, wherein the polynucleotide may be selected from the group consisting of RNA, DNA and PNA polymers complementary to the PNA oligomer.

3(previously presented). Mixture according to claim 1, wherein each isolated or synthetic affinity molecule is selected from the group consisting of monospecific polyclonal or monoclonal antibodies, antibody fragments or derivatives thereof each with affinity for a predetermined analyte antigen.

4(original). Mixture according to claim 3, wherein the concentration of each of the different affinity molecules is between 0.01-0.8 mg/ml of the liquid carrier.

5(previously presented) Mixture according to claim 1, wherein the liquid carrier is water and additionally contains a buffer, stabilizers and/or preservatives.

6(previously presented). Mixture according to claim 1, wherein each of the analytes is selected from the group consisting of different narcotics selected from the group consisting of cocaine, heroin, amphetamine, methamphetamine, cannabinois, tetrahydrocannabinols (THC), and methylenedioxy-N-methylamphetamine (ecstasy).

Claims 7-15(canceled).

16(previously presented). Kit containing a stable or stabilized mixture according to claim 1.

17(new). A method of detection of one or several analyte(s) in a sample comprising:

- providing a mixture of at least two different affinity molecules in a liquid carrier, each with affinity for a predetermined analyte;

- introducing the mixture of the affinity molecules into the flow of an analysis device comprising a sensor system containing one or more flow cell compartments, each comprising a coating including at least one antigen-analogue of a predetermined antigen, wherein at least two of the antigen-analogues are different;

- introducing a liquid sample possibly containing one or several analyte(s) into the flow of the analysis device

- detecting the change of mass on the coating of each flow cell compartment and thereby determining the concentration of the analyte(s) contained in the sample.

18(new). Method according to claim 17, wherein the mixture of the affinity molecules is introduced into the flow of the analysis device prior to introduction of the sample.

19(new). Method according to claim 17, wherein the mixture of the affinity molecules and the analyte sample are mixed together prior to introduction into the

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analysis device and then introduced into the flow of the analysis device.

20(new). Method according to claim 17, wherein the affinity molecules are selected from the group consisting of monospecific polyclonal or monoclonal antibodies, antibody fragments or derivatives thereof each with affinity for a predetermined analyte antigen.

21(new). Method according to claim 17, wherein the concentration of each of the different affinity molecules is between 0.01-0.8 mg/ml of the liquid carrier.

22(new). Method according to claim 17, wherein the liquid carrier is water and additionally contains a buffer, stabilizers and/or preservatives.

23(new). Method according to claim 17, wherein each of the analytes is selected from the group consisting of different narcotics selected from the group consisting of cocaine, heroin, amphetamine, methamphetamine, cannabinoids, tetrahydrocannabinols (THC), and methylenedioxy-N-methylamphetamine (ecstasy).

24(new). Method according to claim 17, wherein each of the analytes is selected from the group consisting of different explosives selected from the group consisting of trinitrotoluene (TNT), dinitrotoluene (DNT), hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazine (HMX), pentaerythritol tetranitrate (PETN), and nitroglycerine (NG).